

TRIBUTARIES BETWEEN PARKER DAM AND GILA RIVER

09428550 BOUSE WASH TRIBUTARY NEAR BOUSE, AZ

LOCATION.--Lat 33°54'05", long 113°58'25", in SW¹/₄SW¹/₄ sec.31, T.7 N., R.16 W., Yuma County, Hydrologic Unit 15030105, at State Highway 72, 3 mi southeast of Bouse.

DRAINAGE AREA.--14.6 mi².

Annual peak discharges

| Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes | Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes |
|------------|----------|--|-----------------|------------|----------|--|-----------------|
| 1963 | 09-17-63 | 248 | ES | 1970 | 08-02-70 | 1,000 | ES |
| 1964 | 10-18-63 | 75 | | 1971 | 08-10-71 | 2,920 | |
| 1965 | 04-03-65 | 20 | | 1972 | 09-17-72 | 76 | |
| 1966 | 09-20-66 | 678 | | 1973 | 08-16-73 | 390 | |
| 1967 | 10-04-66 | 170 | | 1974 | 08-03-74 | 120 | |
| 1968 | 08-03-68 | 180 | | 1975 | 07-29-75 | 828 | |
| 1969 | 08-08-69 | 890 | | 1976 | 09-25-76 | 1,500 | |

Magnitude and probability of instantaneous peak flow based on period of record 1963-76

| Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent | | | | | |
|--|----------|-----------|----------|-----------|------------|
| 2 50% | 5 20% | 10 10% | 25 4% | 50† 2% | 100† 1% |
| 344 | 998 | 1,730 | 3,070 | 4,440 | 6,170 |
| Weighted skew | (logs) = | -0.08 | | | |
| Mean | (logs) = | 2.53 | | | |
| Standard dev. | (logs) = | 0.56 | | | |

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

| Main channel slope (ft/mi) | Stream length (mi) | Mean basin elevation (ft) | Forested area (percent) | Soil index | Mean annual precipitation (in) | Rainfall intensity, 24-hour | |
|----------------------------|--------------------|---------------------------|-------------------------|------------|--------------------------------|-----------------------------|--------------|
| | | | | | | 2-year (in) | 50-year (in) |
| 50.0 | 8.3 | 1,230 | 0.0 | 3.0 | 6.5 | 1.5 | 3.7 |

